

FIG. 1

10035937, 12260-L

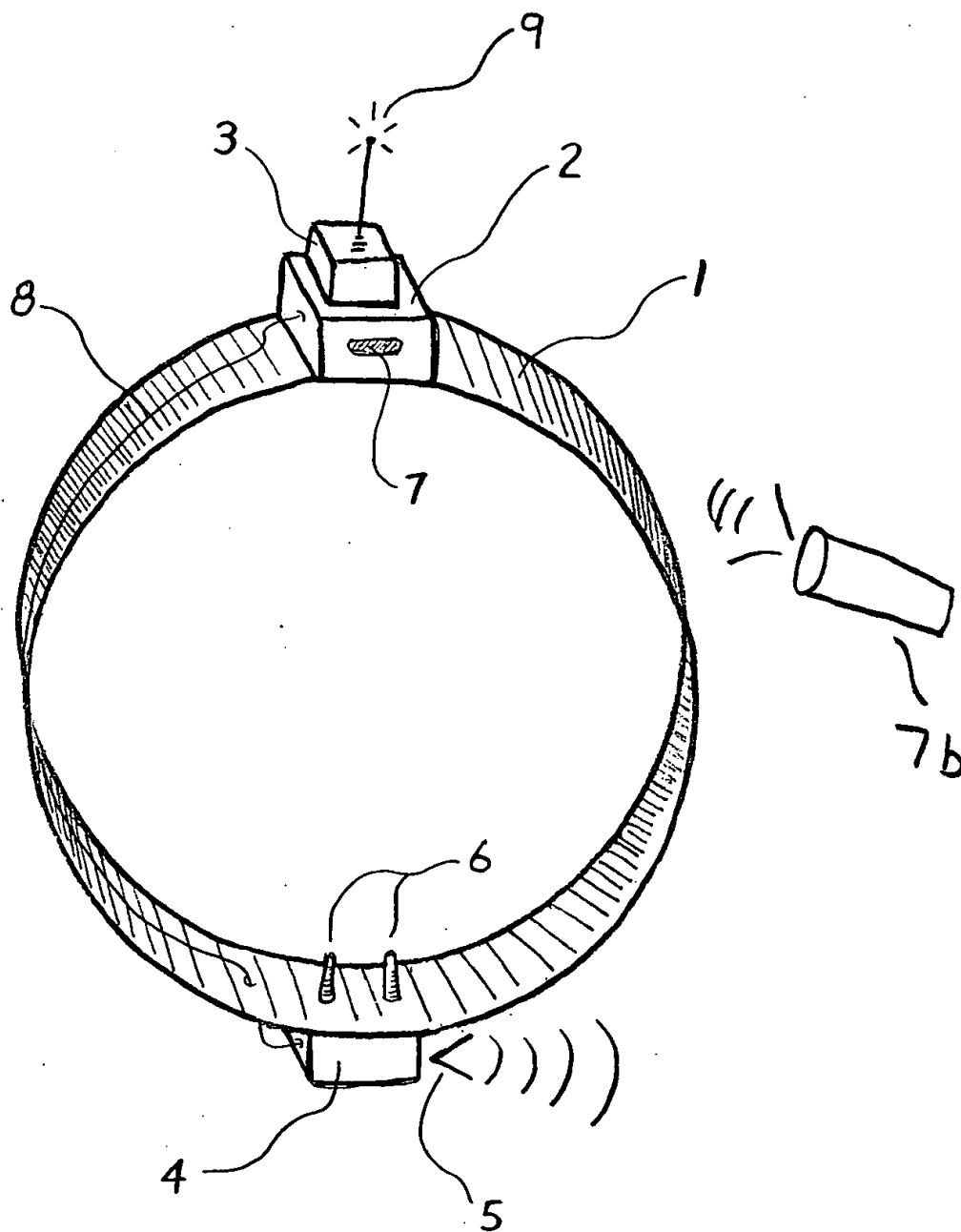


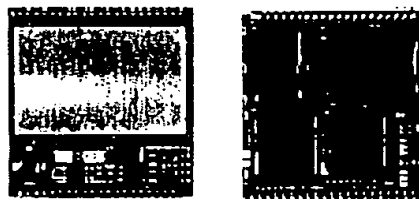
FIG. 2

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BLANK

FIG 3

Datasheet GPS-MS1E



● Sensor positions

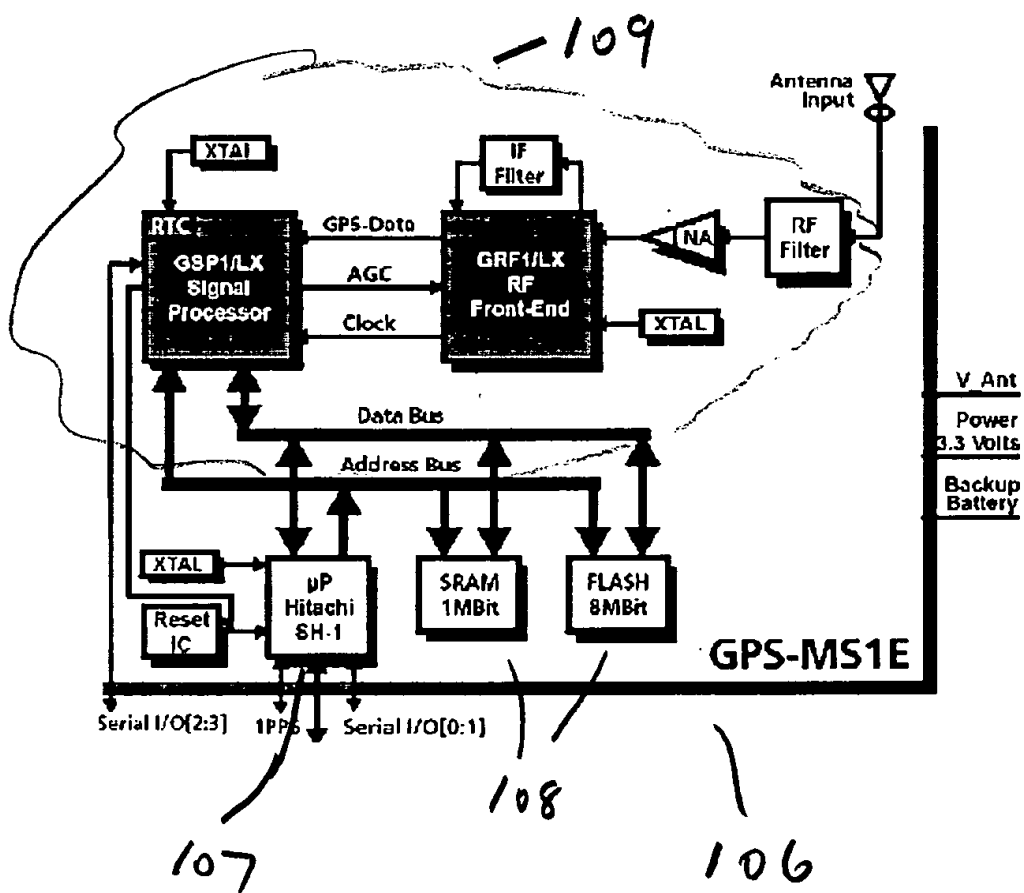


Figure 3
 μ -BLOX programmer

6.2 Pin Description

Figure 2 shows the pin identification

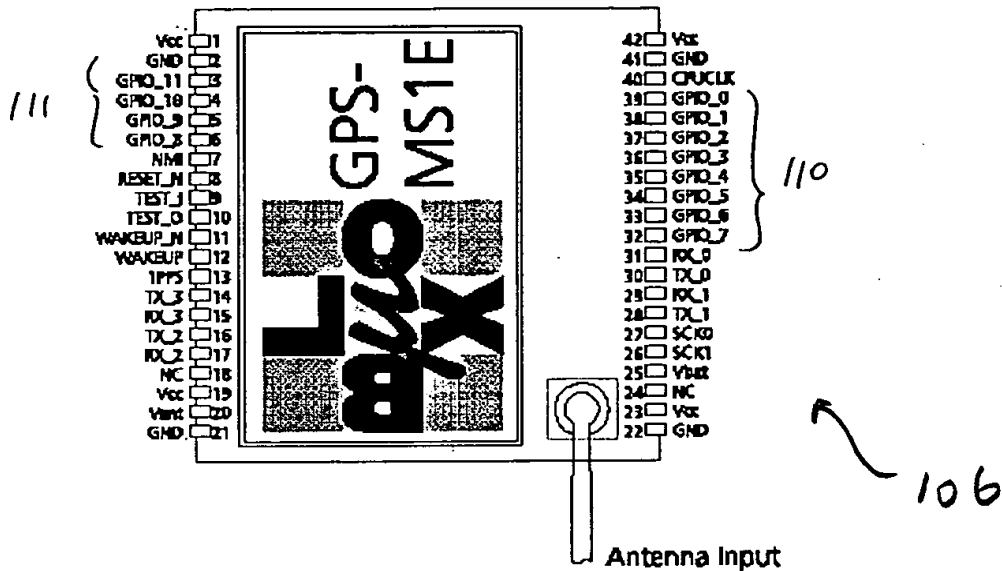
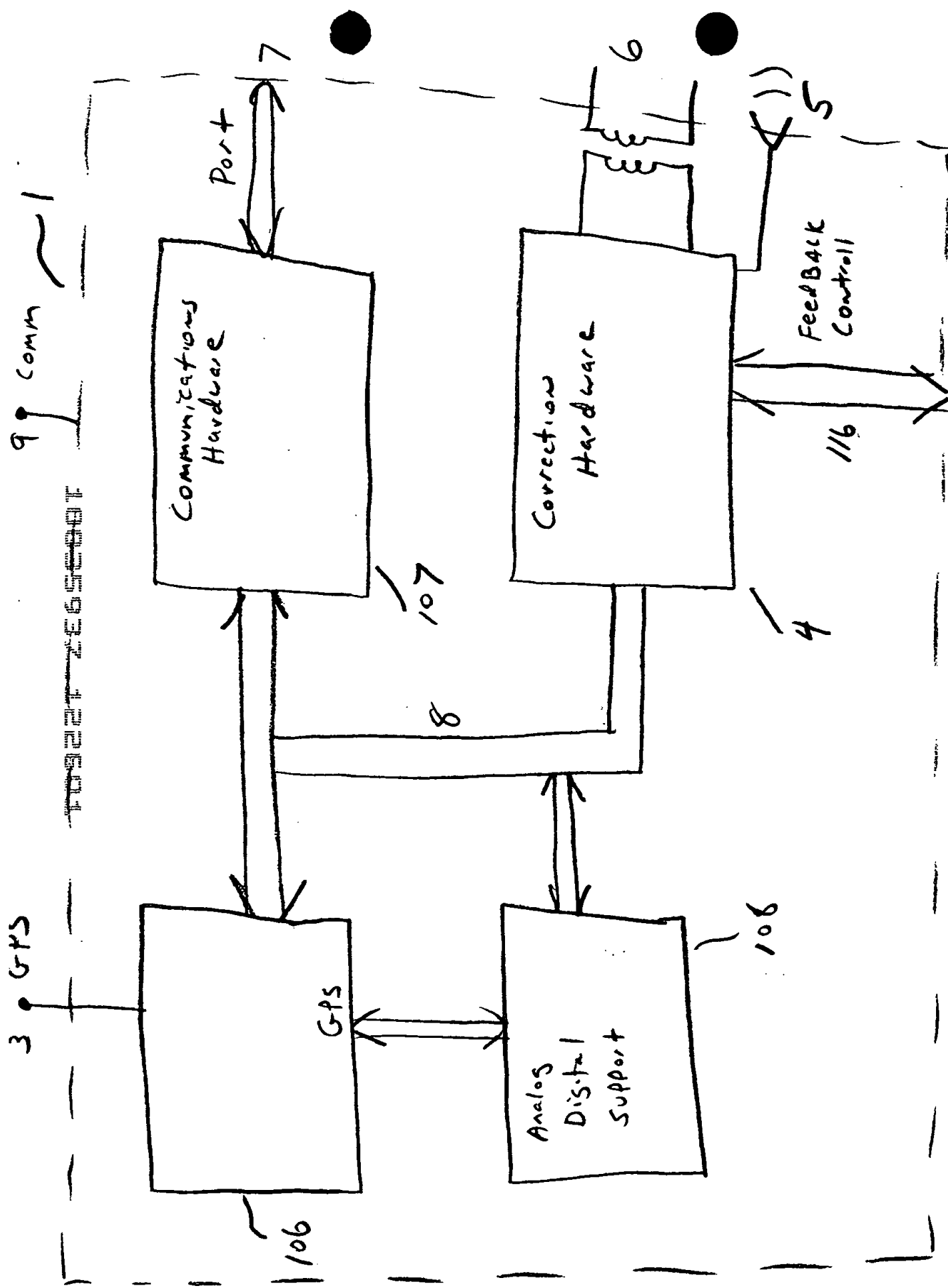


Figure 4
 μ -BLOX pin-out configuration for the GPS-MS1E



Communications:

The GPS coordinates at command can be transmitted in many different possible ways. Three of the possible ways included here but not limited to are:

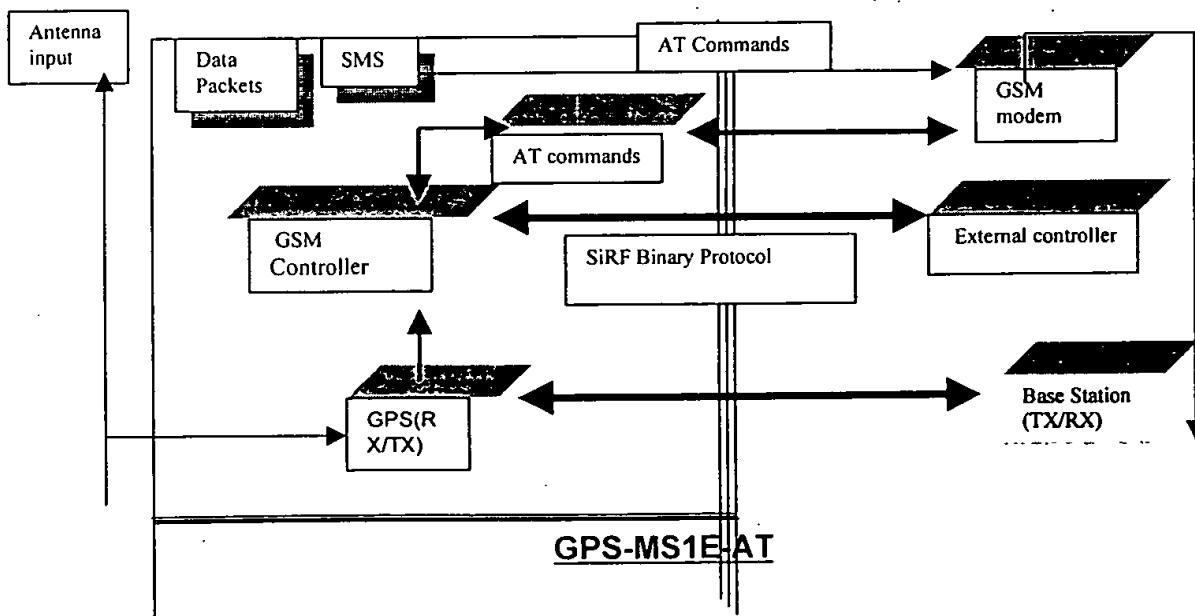
- GPS Receiver with integrated GSM Control Software
- Employing the TDMA Technology
- Employing the CDMA Technology

A) GPS Receiver with integrated GSM Control Software

Overview

The setup requires a GPS receiver (GPS-MS1E-AT), a GSM modem supporting AT interface (GSM 07.05,07.07) and an external controller. The controller reads positions from the GPS receiver and controls the modem. Incorporating the control of the GSM modem into a GPS receiver spares the extra processor, which simplifies the design and saves cost. Below shows the schematic of the communication system.

u-Blox offers an integrated control system for GSM modems with the AT command interface for GPS receivers. This system is designed for autonomous operation. An external controller is not required, however, it can be used for enhanced functionality.



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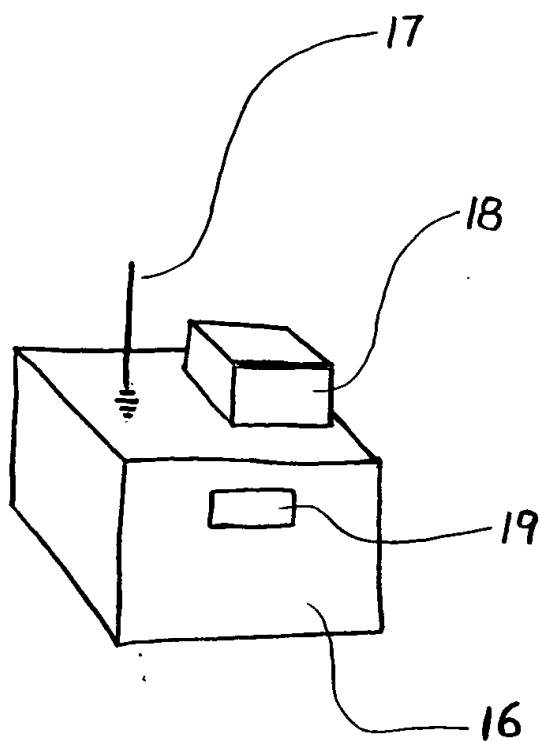


FIG. 6

FIG.6A

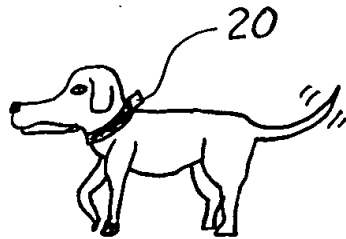


FIG.6B

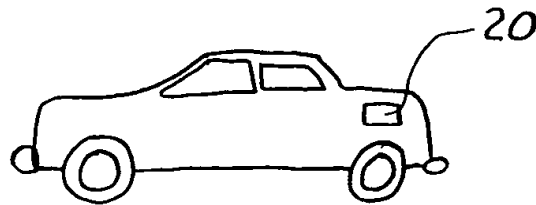


FIG.6C

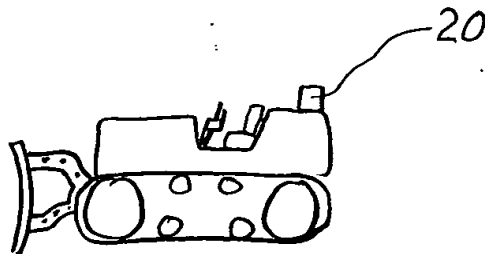


FIG.6D

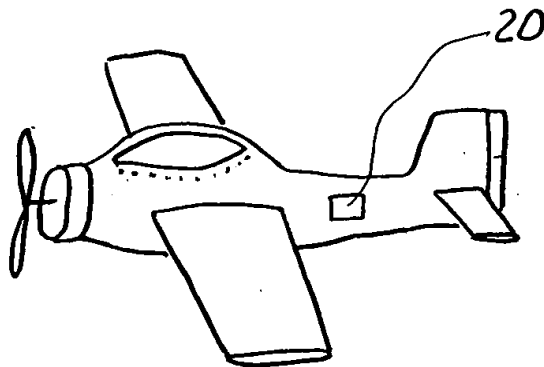
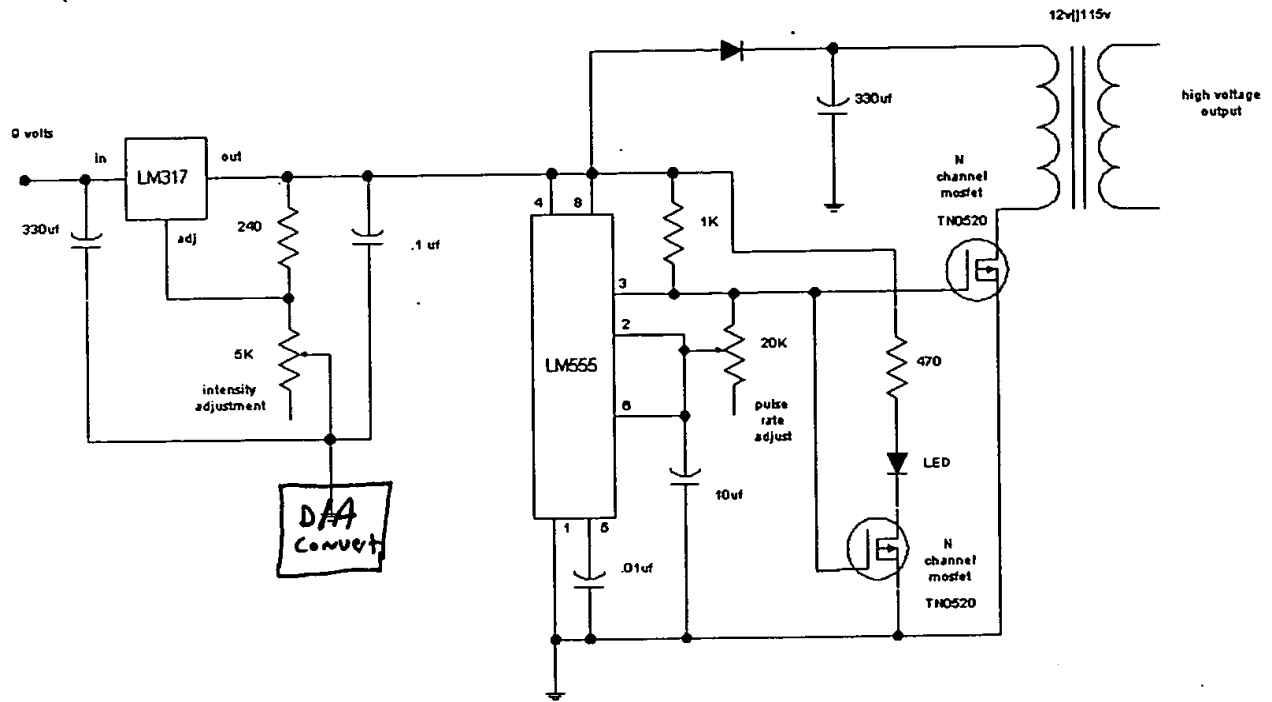


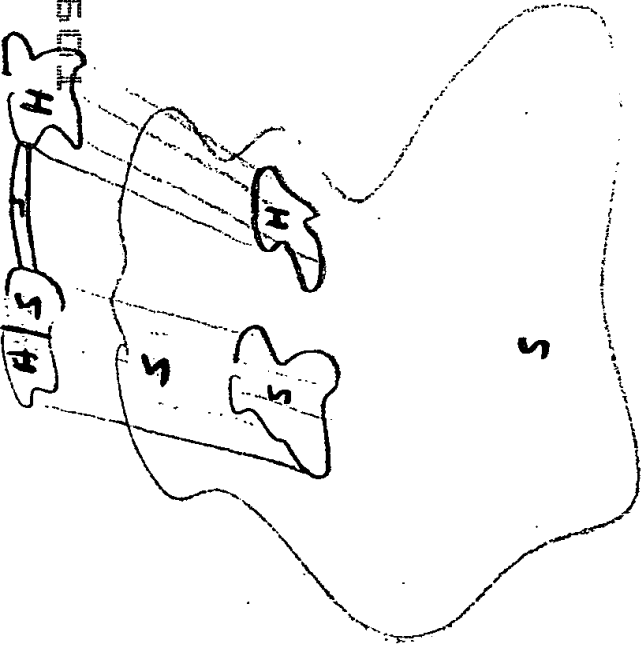
FIG.6E





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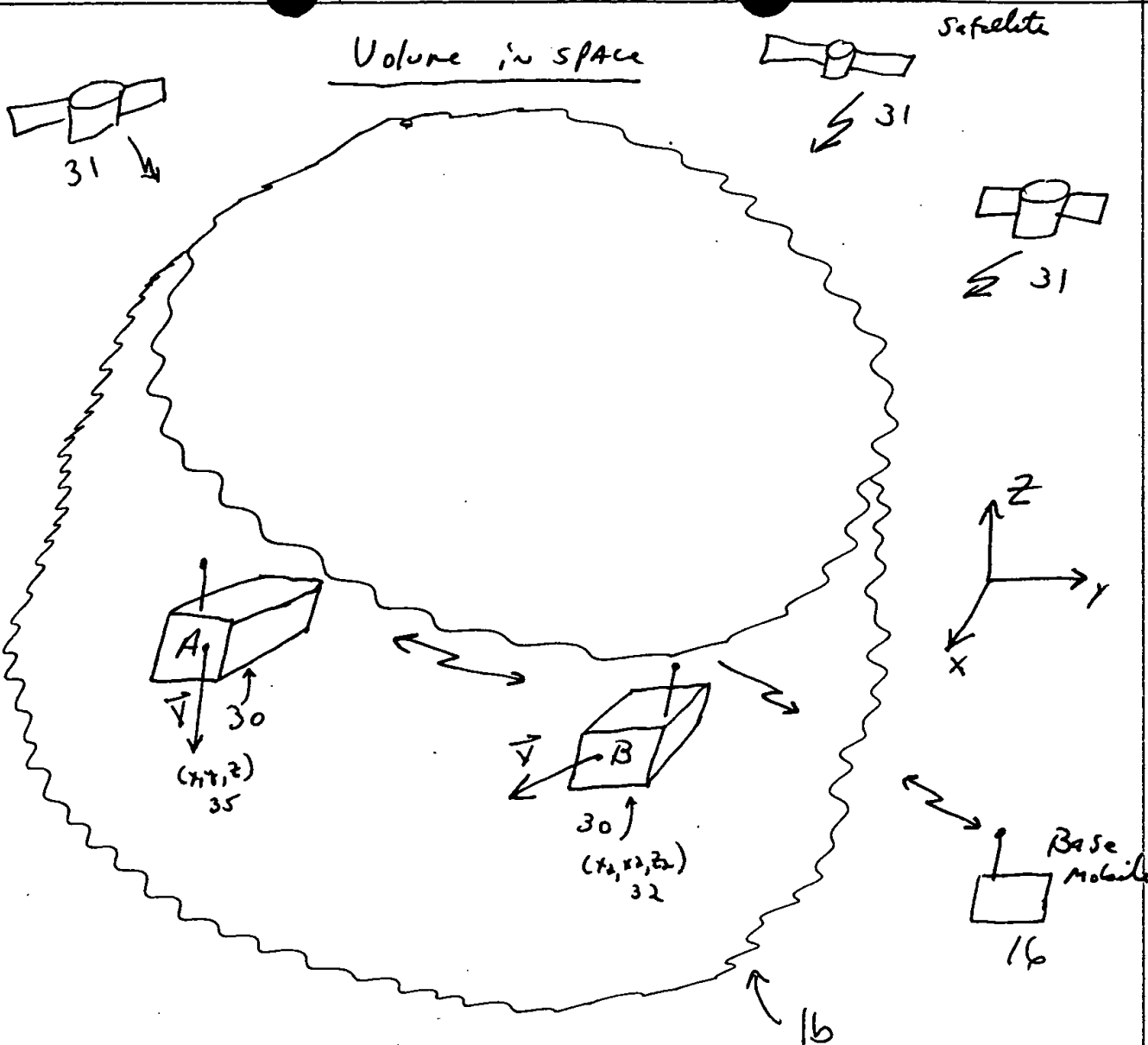
8



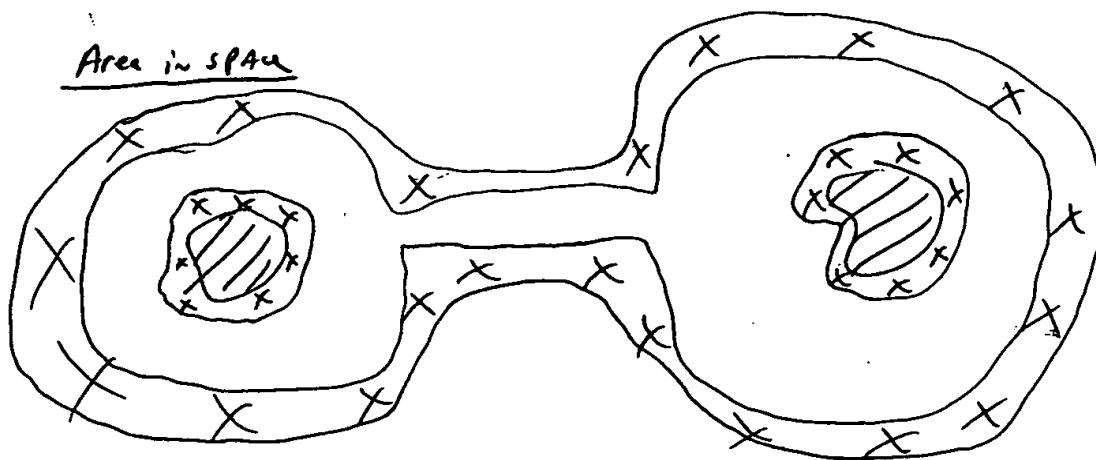
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Volume in space

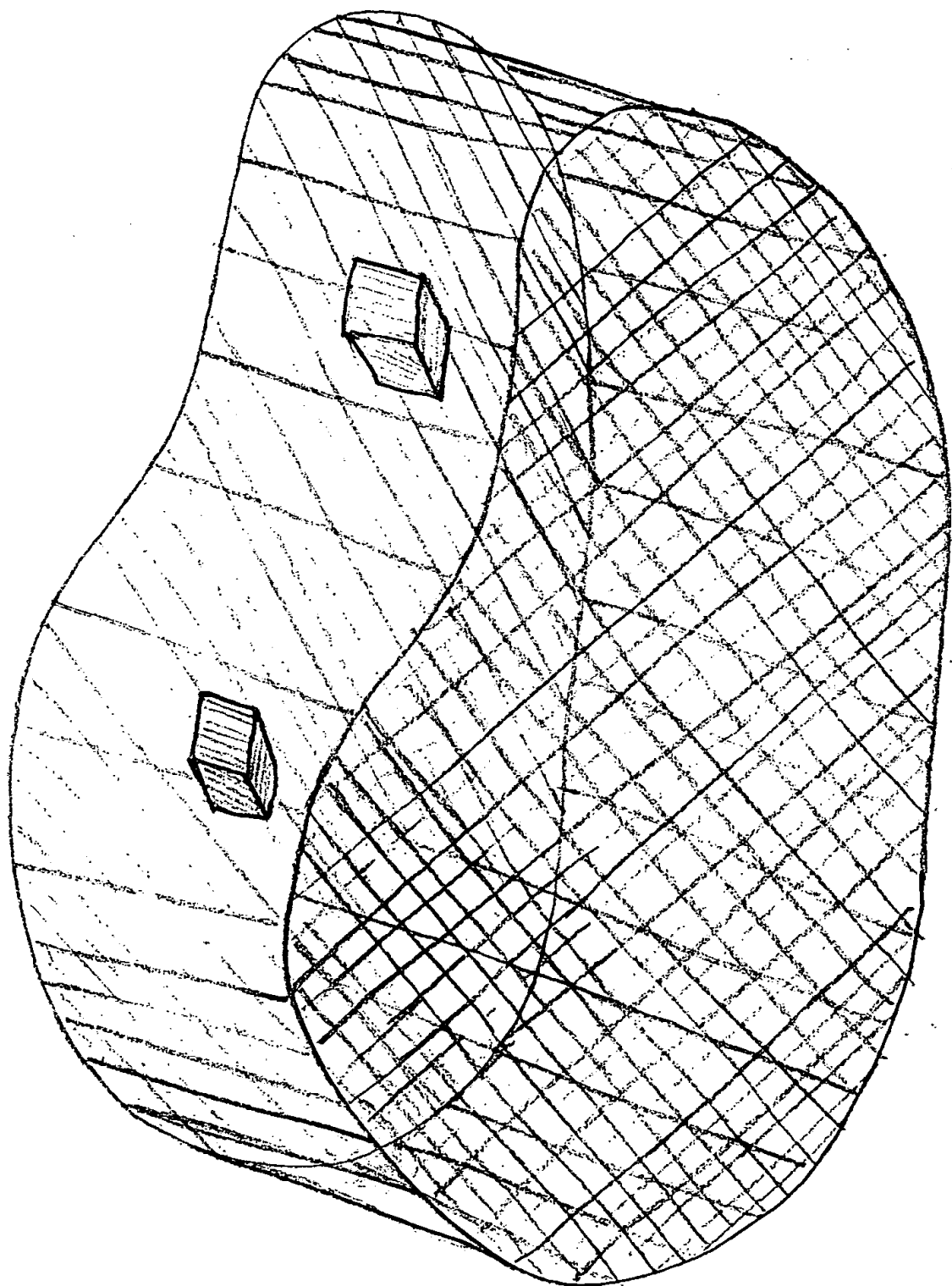


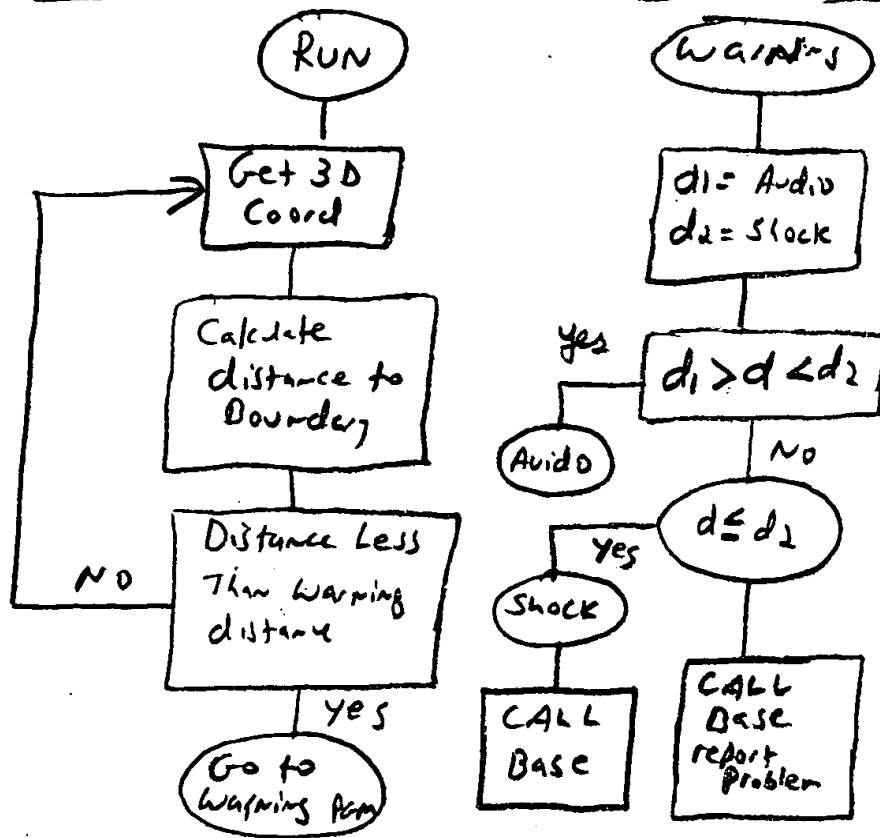
Area in space



- x hazard zone
- /// exclude zone
- safe zone

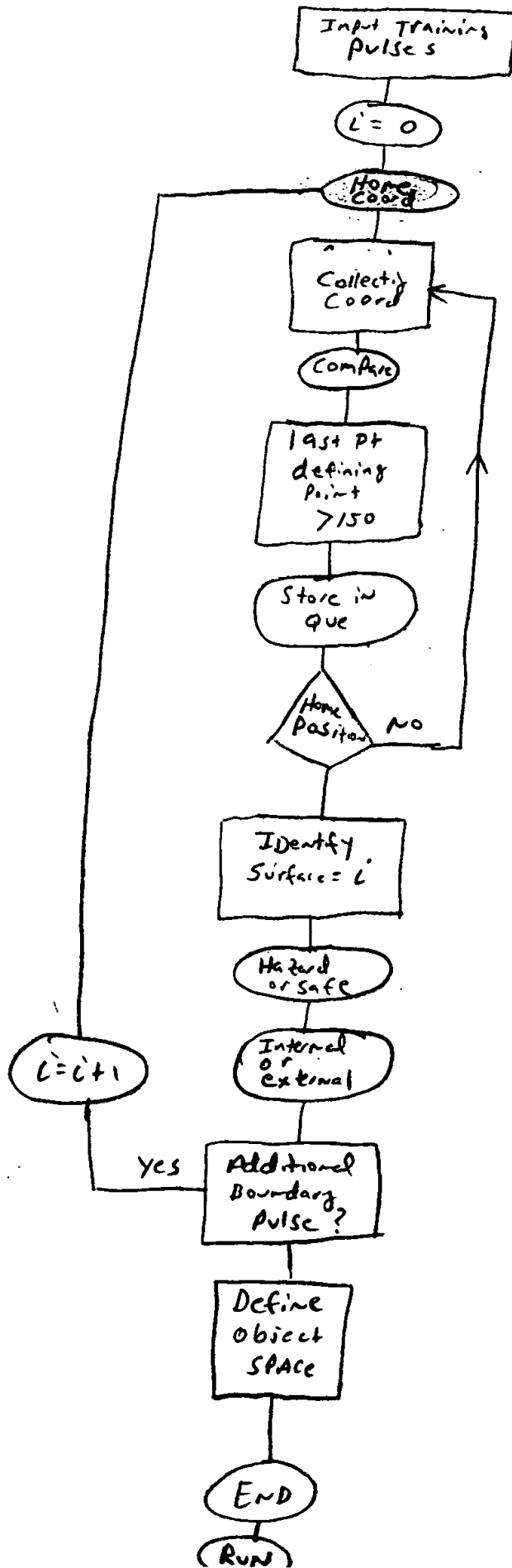
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Fig 12



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Training

Defines Boundary

Defines 2D-3D

Defines subvolume

Defines secure/hazard

Programs module

Defines Digital filter

Amplification

Defines Hysteresis Zone

Communication

Defines

Collar - Base Comm

Defines Protocol

Defines Collar to Collar Comm

Defines digital addresses

Correction

Defines

Method of Correction

Adjusts

Correction Parameters